

SIMULTANEOUS VERTICAL SPATIAL FILTERING AND
CHROMA CONVERSION IN VIDEO IMAGES

ABSTRACT OF THE DISCLOSURE

Simultaneous vertical spatial filtering and chrominance conversion is achieved with reduced data buffering and simplified filtering circuits by using a single filter stage and hybrid filter coefficients. Data latency is reduced and performance requirements are reduced while avoiding critical signal propagation paths. The filter and buffers are fully compatible with any scan format having consecutively presented lines of image data, including both progressive and interlaced scan formats.